SERVICE MANUAL
& PARTS LIST

(without price)

POCKET TELEVISION

TV-1400 (KX-336CA/CF)

AUGUST 1988

CASIO

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NOTES

TV-1400 has four versions by destinations as follows.
This manual explains PAL model for C version.
For A, B and D versions, refer to separate manunals issued in August 1988.

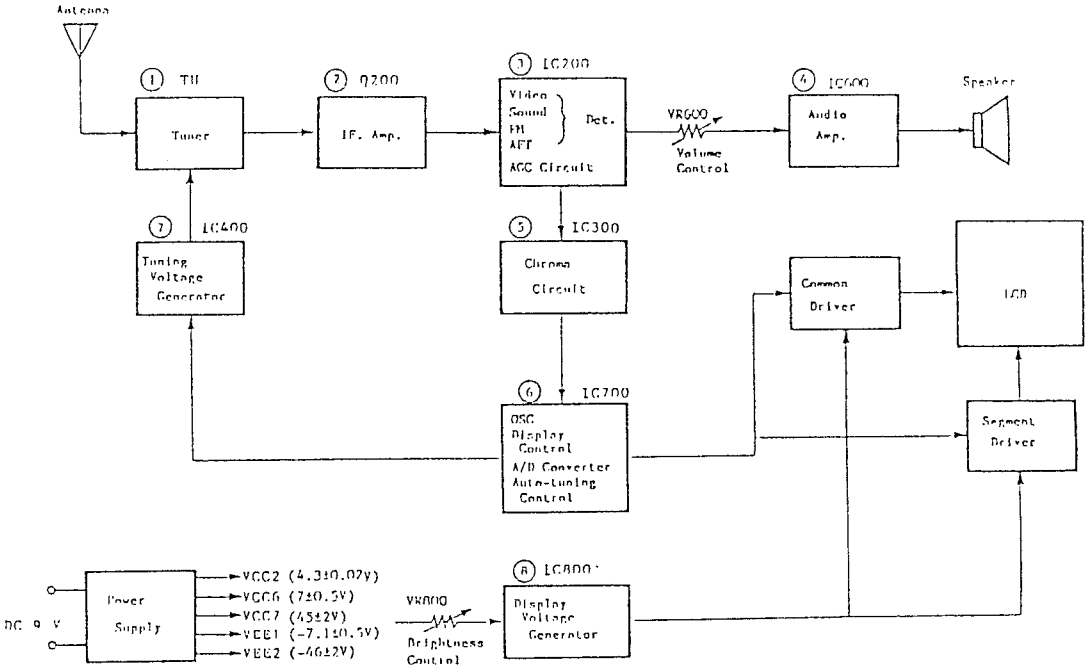
Version	Reception channels	TV System	Destinations
A	VHF: Ch 1-12 UHF: Ch 3-62	M/M, NTSC	Japan
B	VHF: Ch 2-13 UHF: Ch 14-62	M/M, NTSC	USA
C(CF)	VHF: Ch 2-12 UHF: Ch 21-69	B/G, PAL	Europe(W.Germany)
D	UHF: Ch 21-68	G, PAL	UK

West Germany model of CF version is modified some parts from C version to pass FTZ regulations. Refer to circuit diagrams and parts list for details.

SPECIFICATIONS

Item	Specification
1. Reception channels	VHF: Ch 2~ 12, UHF: Ch 21~ 69
2. Power voltage	DC 6.0 V
3. Power consumption	Approx. 3.8 W
4. Current consumption	Approx. 600 mA
5. Battery life (with alkaline batteries)	Approx. 2.0 hours
6. Power supply	Batteries: 4 AA size batteries Car battery: CA-K65 AC adaptor: AD-K65
7. Connection terminals	Earphone jack: 3.5ϕ mini External power jack: 6.0 V DC IN External antenna jack: 3.5ϕ mini (CA version only)
8. Screen size	2.7 inches
9. No. of picture element	118,580 (220× 539) dots
10. Dimensions	149.0 mm (H)× 87.0 mm (W)× 32.2 mm (D) 5-7/8" (H)× 3-7/16" (W)× 1-5/16" (D)
11. Weight	445 g including batteries 15.7 oz including batteries
12. Standard accessories	Soft case and Test batteries (UM-3 × 4)
13. Options	AC adaptor: AD-K65 Car adaptor: CA-K65 RF connector: CF-13 Antenna matching device: AS-35S Video cord : AV-C1
14. Body color	Black

BLOCK DIAGRAM



1. Tuner: TU
   Picks up a desired radio wave, and converts it into IF signal.

2. IF Amp.: Q200
   Amplifies IF signal output from the tuner by approximately 10 times.

3. Video, Sound, FM Det., AGC: IC200
   Picks up the video signal and the sound IF signal by detecting IF signal.
   Also picks up the sound signal from the sound IF signal by FM detection.
   AGC circuit compensates reception inferiority caused by radio wave.

4. Audio Amp.: IC600
   Amplifies the sound signal.

5. Chroma Circuit: IC300
   Picks up three colors of Red, Green and Blue from the video signal.

6. OSC, A/D Converter, Display Control, Auto-tuning Control: IC700
   Converts the color signal into the digital signal.
   Also generates the clock pulse for the display, and controls the display.

7. Tunig Voltage Generator: IC400
   Generates the tuning voltage.

8. Display Voltage Generator: IC800
   Generates the display voltage V0 to V4 from VEE1/2 and VCC6/7 output from the power supply.

CIRCUIT OPERATIONS

Power supply

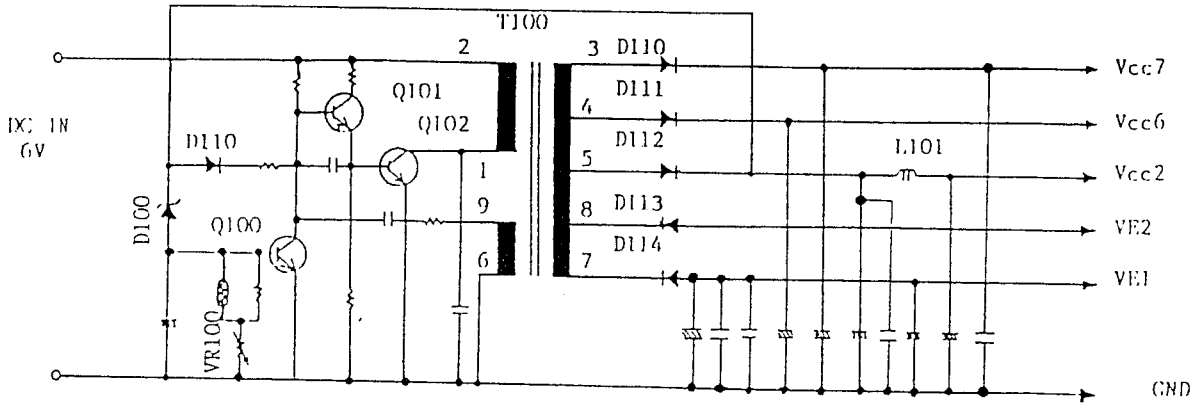


Fig. 1

DC-DC converter is a main component in the power supply, and tabel 1 shows voltages output from the power supply.

Terminal	Voltage	Purpose
VCC2	4.3 ± 0.02 V	Logic circuit
VCC6	7.0 ± 0.5 V	Display
VCC7	45.0 ± 2 V	Display/Tuning
VEE1	-7.1 ± 0.5 V	Display
VEE2	-46.0 ± 2 V	Display

Table 1

Tuning voltage generator

IC400 (MSC1169) is a main component in this cuircuit, and generates the tuning voltage BT by receiving the TU signal generated from IC700 (MSM6348) on the A/D PCB.

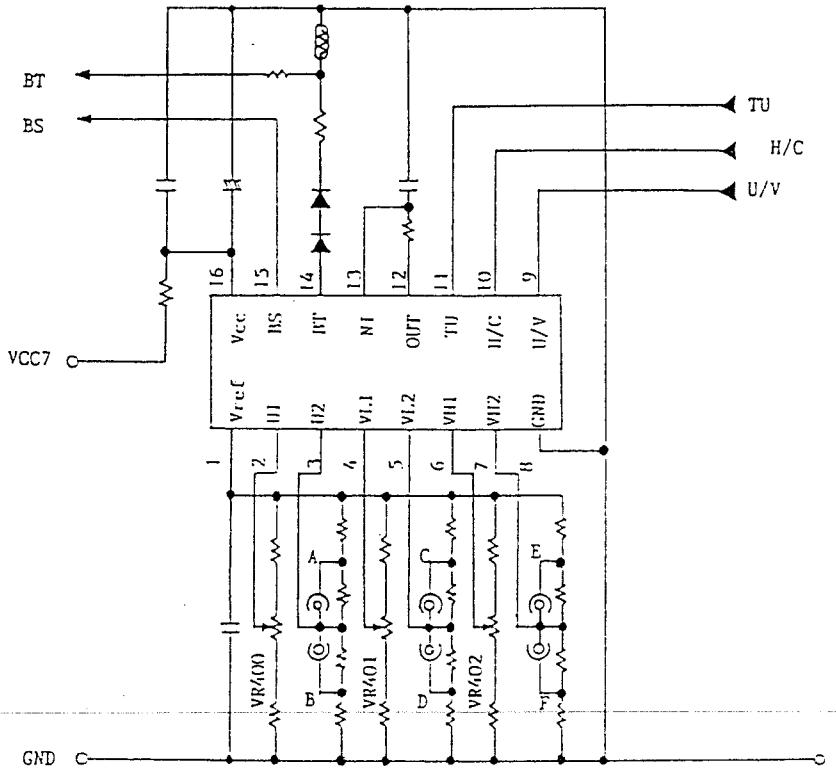


Fig.2

Variable resistors VR400 ~ VR402 and sodering pads A ~ F determine the characteristics of the tuning voltage BT.
If these variable resistors and soldering pads are not adjusted correctly, the tuning indicator does not match with the channel display.

Table 2 shows functions of each variable resistors and soldering pads.

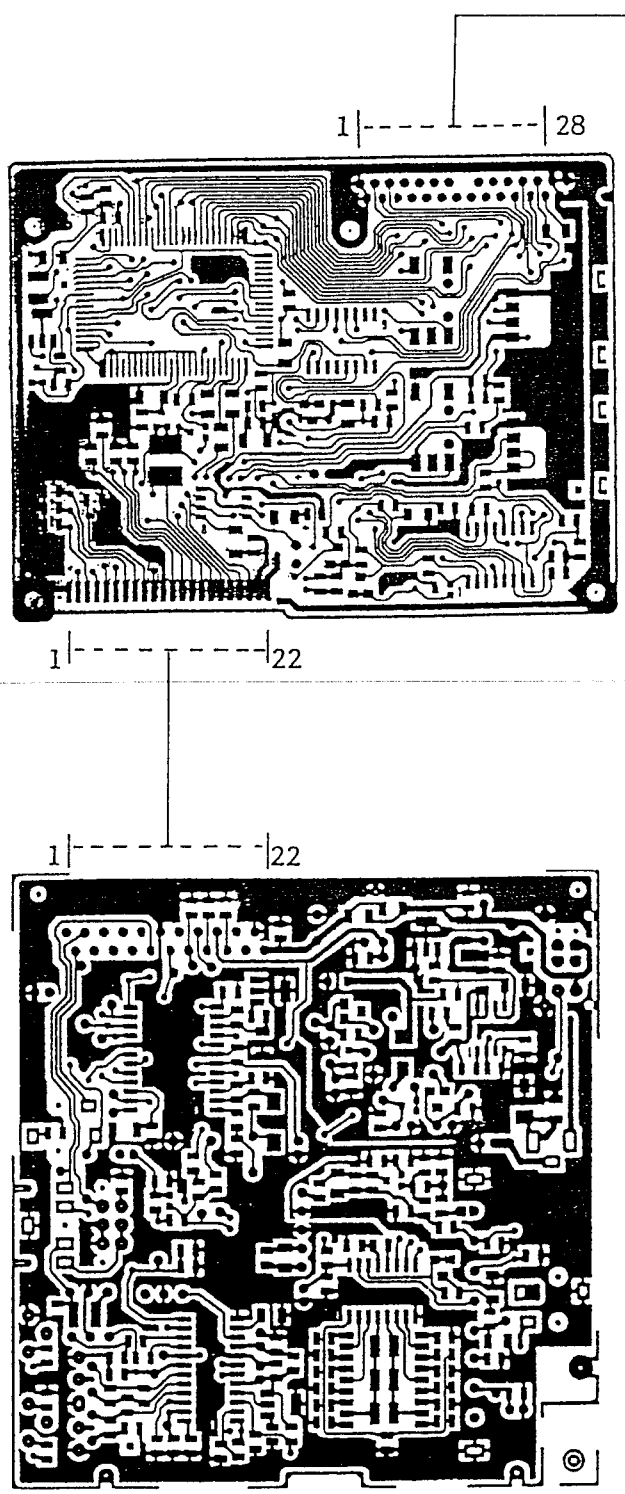
VR No.	Functions
VR401, C, D	VHF (L) indicator adjustment
VR402, E, F	VHF (H) indicator adjustment
VR400, A, B	UHF indicator adjustment

Table 2

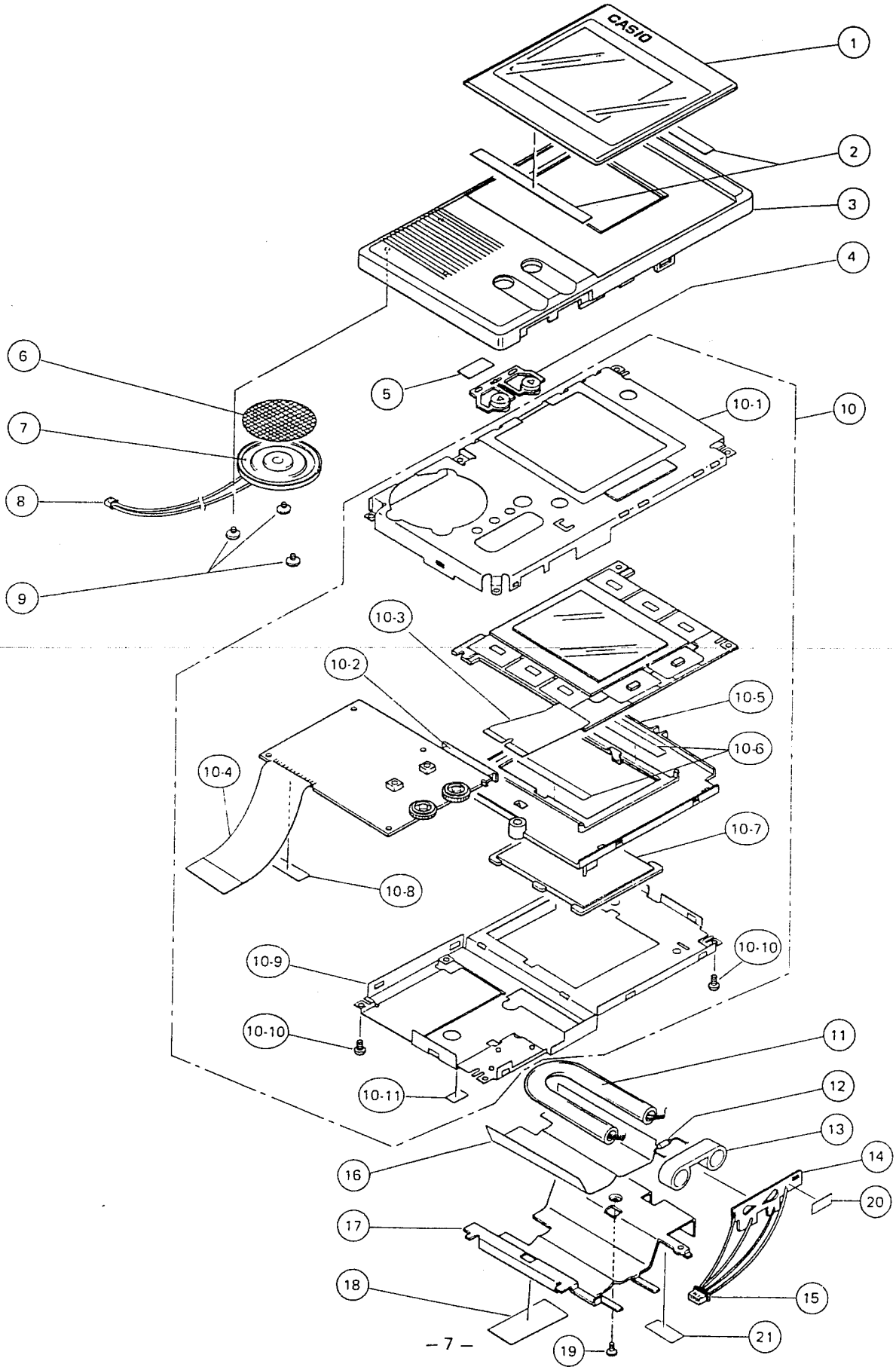
ADJUSTMENT

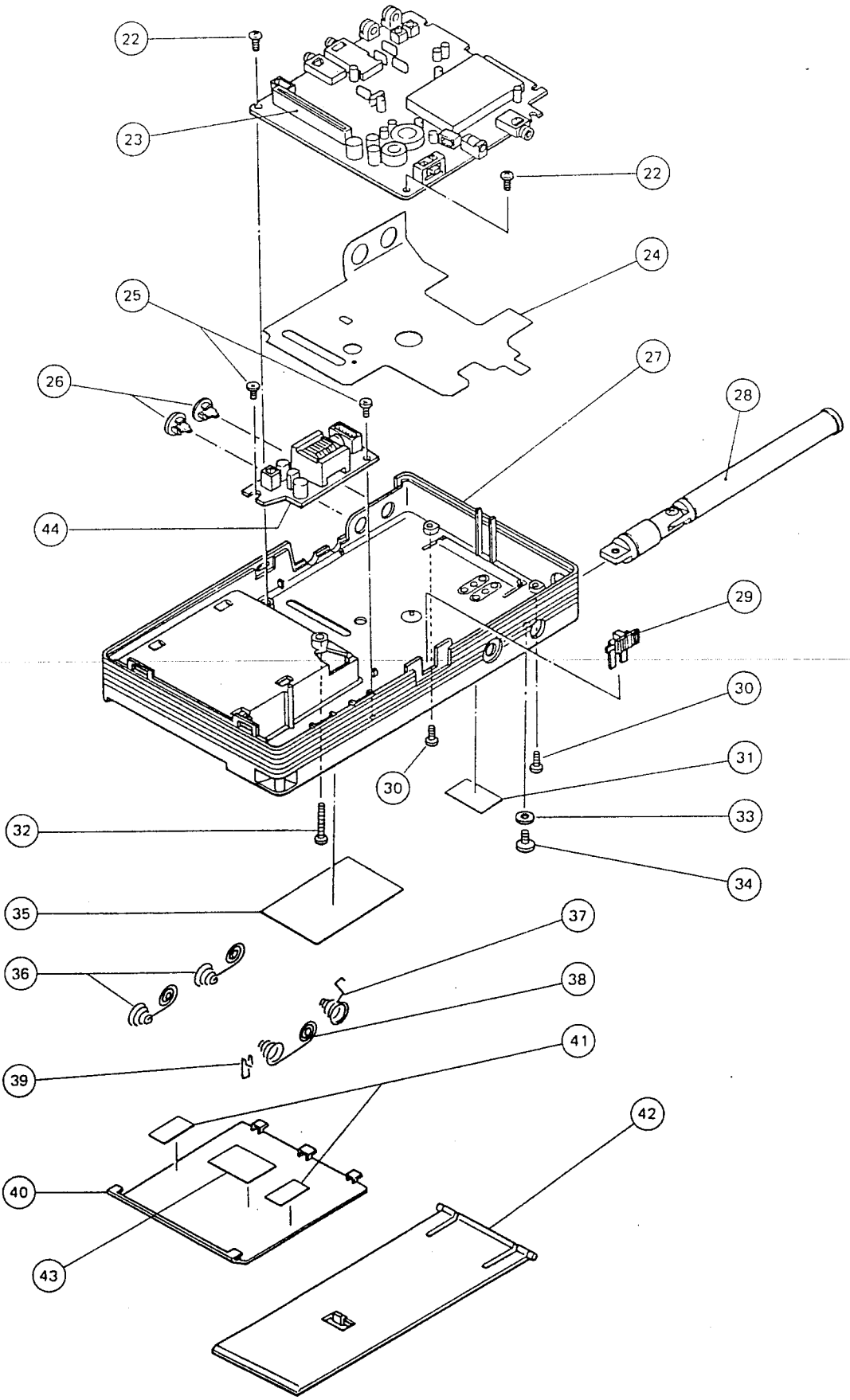
Adjustment point	Adjustment	P C B
VCC2 voltage	☆ Make this adjustment whenever repairing. ○ Adjust VR100 so that VCC2 is 4.3 ± 0.02 V.	Linear
Video detection coil	☆ Make this adjustment when sensitivity or receiving is poor. ○ Adjust T200 with watching the screen.	Linear
AFT coil	☆ Make this adjustment when the auto-tuning does not stop. ○ Adjust T201 so that the auto-tuning stops.	Linear
Contrast	☆ Make this adjustment when the contrast is not good. ○ Adjust VR300 with watching the screen.	Linear
AGC	☆ Make this adjustment when no reception is possible at all or the sensitivity is extremely bad. ○ Adjust VR201 with watching the screen.	Linear
Clock pulse	☆ Make this adjustment when no synchronization is gained. ○ Adjust VR700 with watching the screen.	A/D

WIRING DIAGRAM



EXPLODED VIEW / DISASSEMBLY

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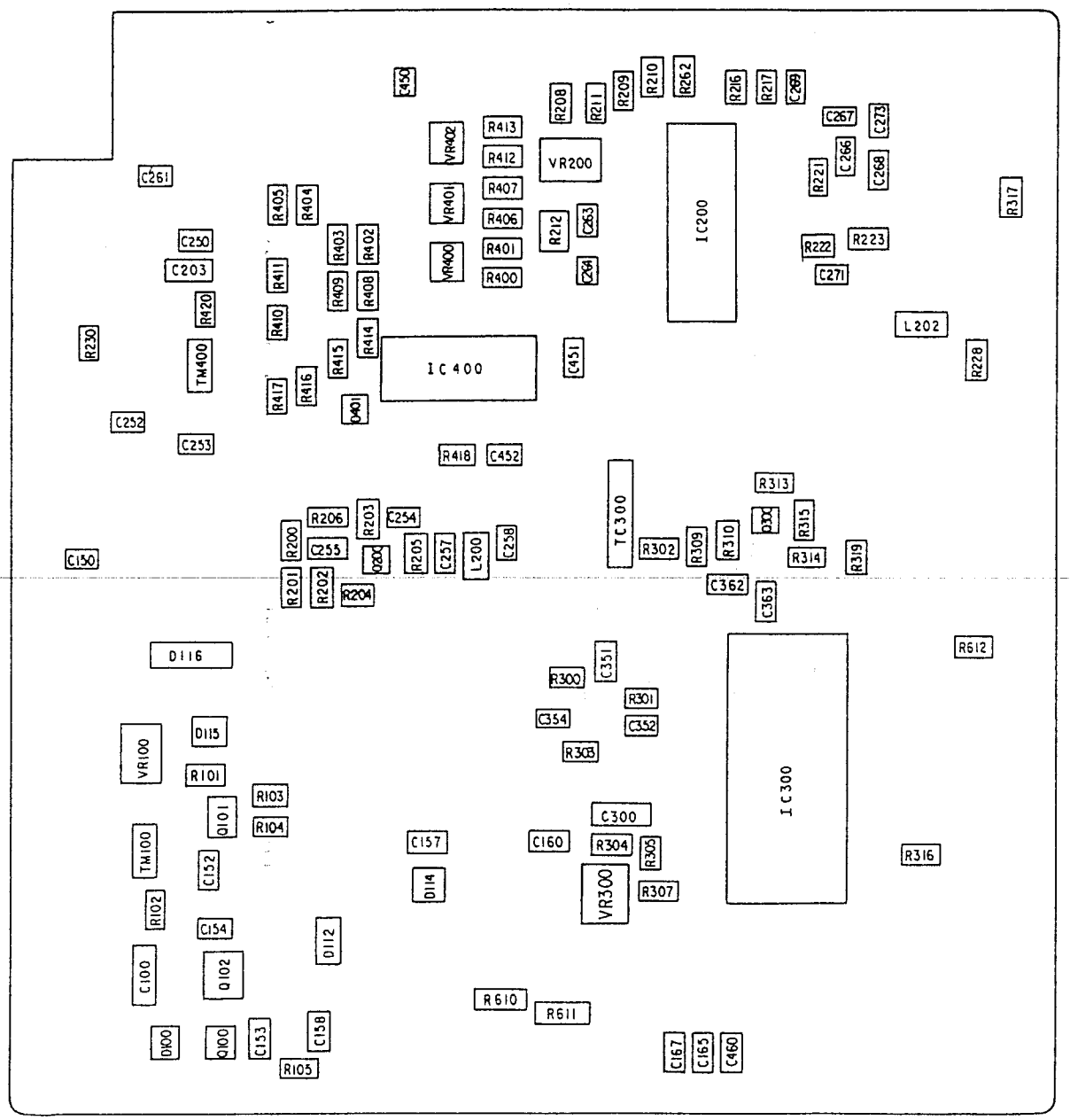
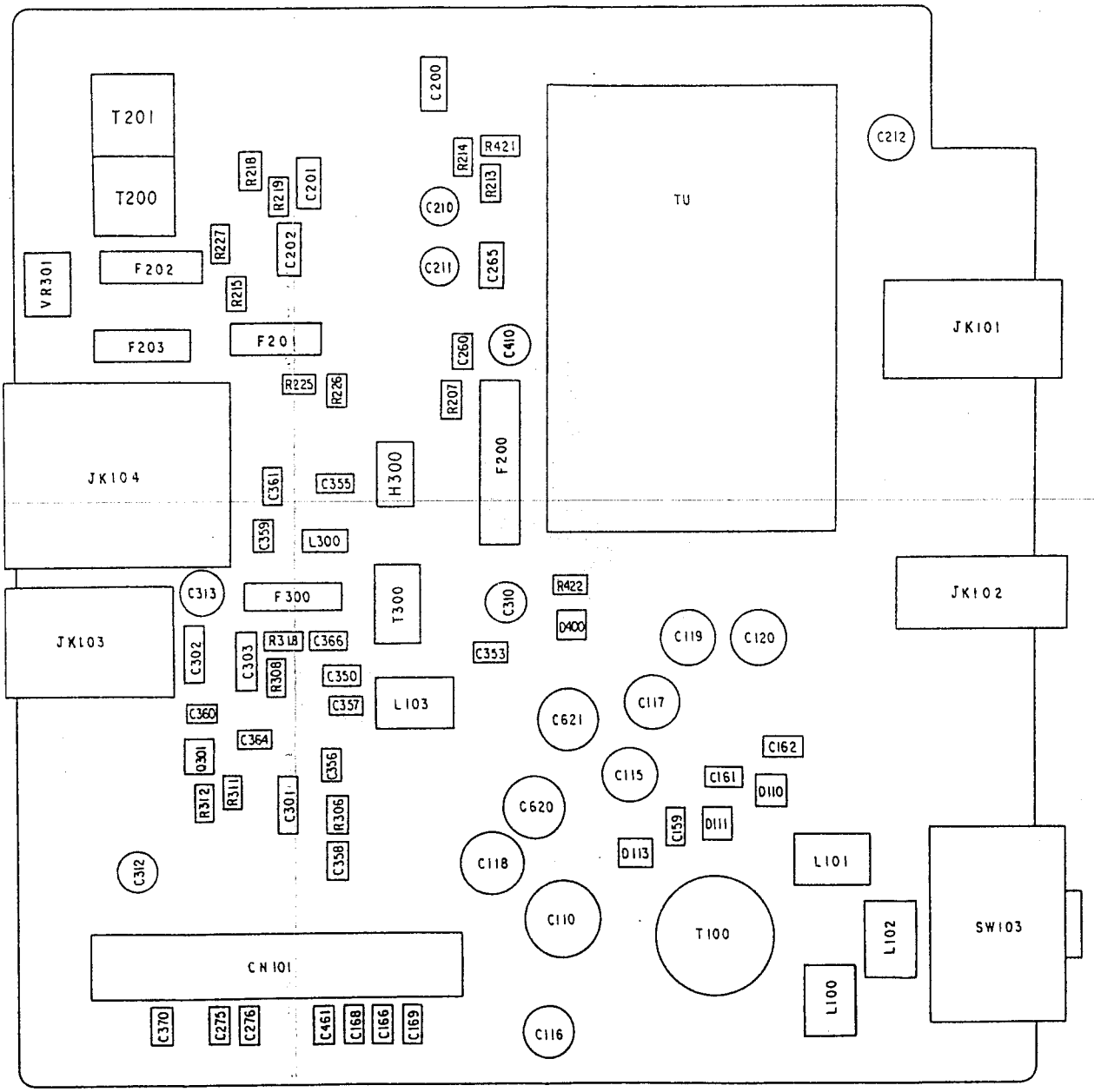
Linear PCB (Bottom view)

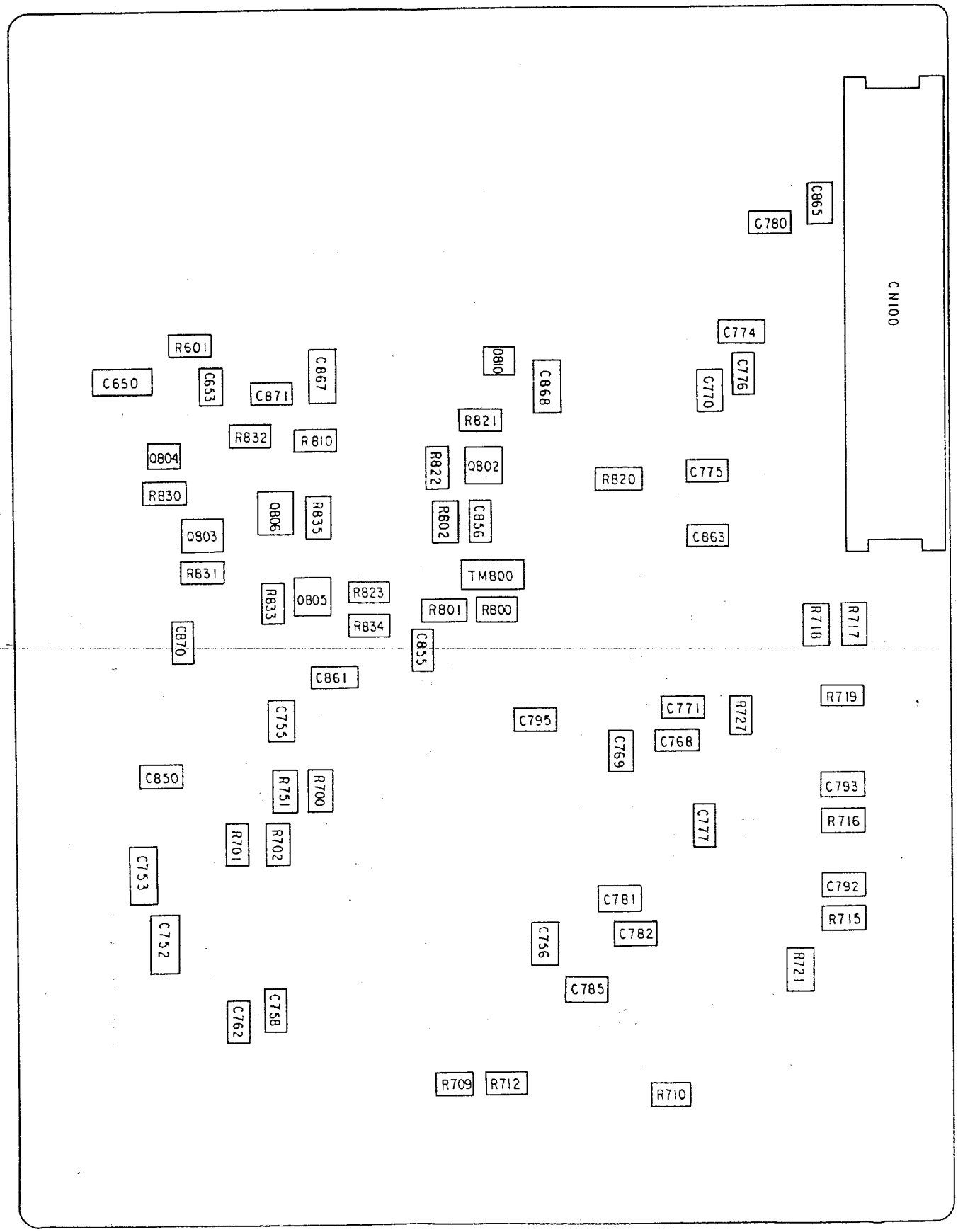


LOCATIONS

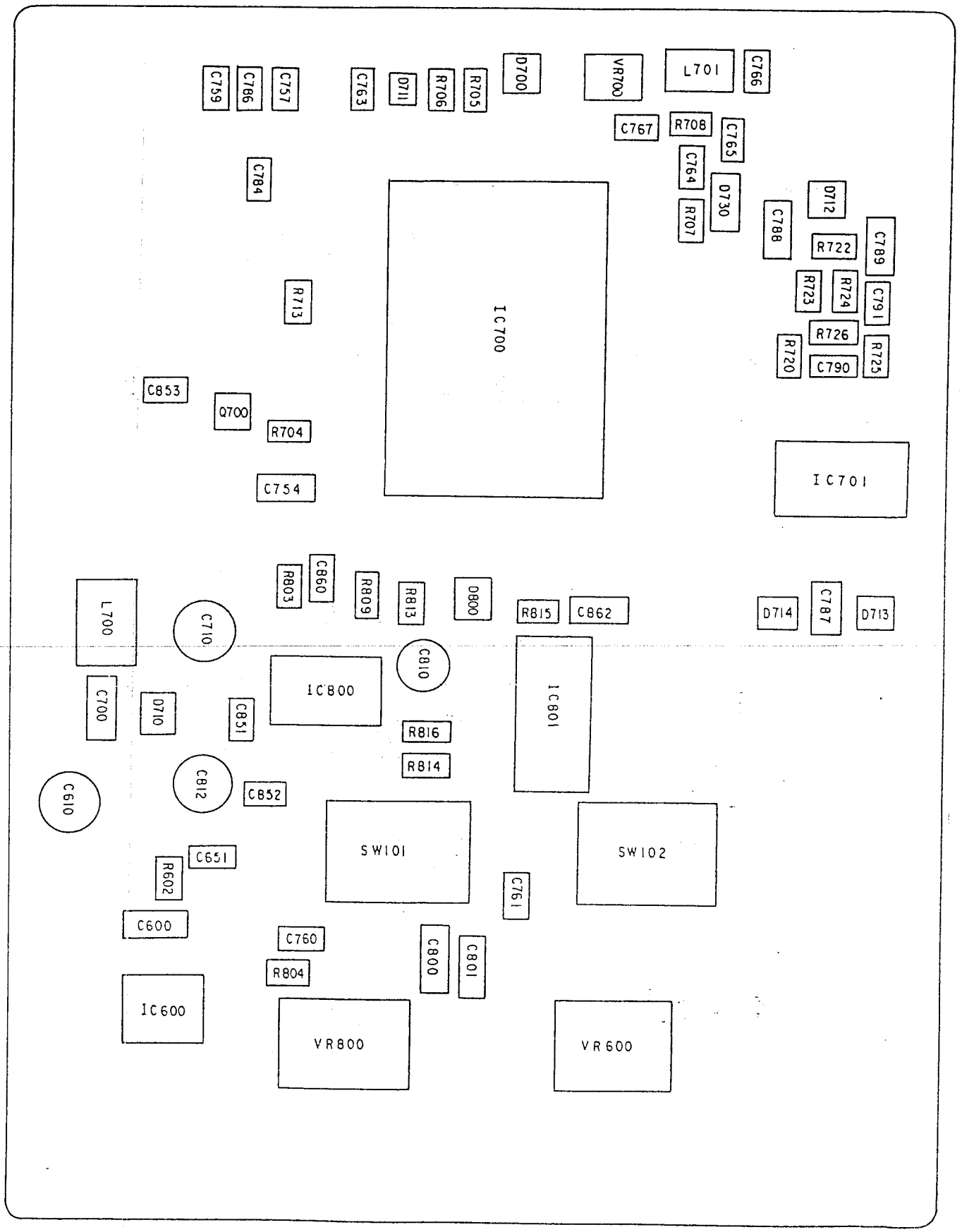
Linear PCB (Top view)



A/D PCB (Bottom view)



A/D PGB (Top view)



Linear PCB No.1 KX336CA,CF

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	Capacitors					
C100	2895 0112	Chip tantalum	TESVA0J335M1-8R	10		C
C110	2804 8491	Electrolytic	10RC470	10		C
C115	2805 8203	Electrolytic	50RC3 4R7	10		C
C116 *O	2845 1141	Electrolytic(OS)	6SC22M	5		C
C117 *O	2801 7833	Electrolytic	25RC310	20		C
C118 *O	2845 1141	Electrolytic	6SC22M	5		C
C119 *O	2801 7833	Electrolytic(OS)	25RC310	20		C
C120	2805 8203	Electrolytic	50RC3 4R7	10		C
C150	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C151		Not used				
C152	2897 0189	Chip	GR40W5R682K50PT	20		C
C153	2892 0210	Chip	GR40W5R681K50PT	10		C
C157	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C158	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C159	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C160	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C161	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C162	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C165	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C166	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C167	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C168	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C169	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C200	2895 0077	Chip tantalum	TESVA0J225M1-8R	10		C
C201	2895 0742	Chip tantalum	TESVA1E474M1-8R	10		C
C202	2895 0077	Chip tantalum	TESVA0J225M1-8R	10		C
C203 *O	2895 0350	Chip tantalum	TESVA1V104M1-8R	10		C
C210 *O	2845 1176	Electrolytic(OS)	6SC6R8M	10		C
C211 *O	2800 9182	Electrolytic	6.3RC2-47MS	20		C
C212 *O	2800 9182	Electrolytic	6.3RC2-47MS	20		C
C250	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C251		Not used				
C252	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C253	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C254	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C255	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C256		Not used				
C257	2897 0245	Chip	GR40CH180J50PT	20		C
C258	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C259		Not used				
C260	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C261	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C262	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C263	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C264	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C265	2892 0844	Chip	GR42-6Y5V474Z16PT	20		C
C266	2897 0133	Chip	GR40CH0R5C50PT	20		C
C267	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C268	2892 0850	Chip	GR40PH560J50PT	20		C
C269	2892 0016	Chip	GR40W5R102K50PT	10		C
C270		Not used				
C271 *O	2892 0407	Chip	GR40CH270J50PT	20		C
C272		Not used				
C273 *O	2892 0850	Chip	GR40PH560J50PT	20		C
C275	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C276	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C277		Not used				
C300	7103 3826	Chip tantalum	TESVA1A155M1-8R	10		C
C301	2890 1666	Chip tantalum	TESVA1D474M1-8R	10		C
C302	2890 1666	Chip tantalum	TESVA1D474M1-8R	10		C
C303	2890 1666	Chip tantalum	TESVA1D474M1-8R	10		C
C310	2800 9182	Electrolytic	6.3RC2-47MS	20		C

Linear PCB No.2

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
C311	2801 7329	Electrolytic	10RC2BP-10	20		C
C312	2804 9064	Electrolytic	16RC2-10	10		C
C350	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C351	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C352	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C353	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C354	2892 0318	Chip	GR40CH820J50PT	10		C
C355	2892 0113	Chip	GR40CH150J50PT	10		C
C356	2892 0016	Chip	GR40W5R102K50PT	10		C
C357	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C358	2892 0326	Chip	GR40CH101J50PT	10		C
C359	2897 0126	Chip	GR40CH221J50PT	20		C
C360	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C361	2892 0113	Chip	GR40CH150J50PT	10		C
C362	2892 0296	Chip	GR40CH390J50PT	10		C
C363	2897 0245	Chip	GR40CH180J50PT	20		C
C365		Not used				
C366	2897 0126	Chip	GR40CH221J50PT	20		C
C369		Not used				
C370	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C410	2801 8379	Electrolytic	50RC2-1	20		C
C450	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C451	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C452	2892 0229	Chip	GR40W5R103K25PT	10		C
C460	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C461	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C620	2804 9471	Electrolytic	10RC3 100	10		C
C621	2804 9471	Electrolytic	10RC3 100	10		C
C660		Not used				
	Diodes					
D100	2315 0158	Chip zener	MA3051-L(TX)	10		C
D110	2390 0651	Chip	MA158	20		C
D111	2305 1010	Chip	MC2838	10		C
D112	2315 0204	Chip schottoky	MA701	10		C
D113	2305 1010	Chip	MC2838	10		C
D114	2390 0651	Chip	MA158	20		C
D115	2305 1010	Chip	MC2838	10		C
D116	2315 0204	Chip schottoky	MA701	10		C
D400	2360 0854	Chip zener	MA3100-M(TX)	20		C
D401 *O	2390 0735	Chip schottoky	MA143	20		C
D402		Not used				
	Filters, Traps					
F200	3025 0189	SAW filter	SAF38.9MZ60Z	1		C
F201	3025 0154	SIF filter	EFC-S5R5MS6	10		C
F202	3850 1496	Ceramic discriminetor	CDA5.5MC30	5		C
F203	3850 1372	SIF trap	TPS5.5MB	10		C
F300	3850 1380	Chroma trap	TPS4.43MJ	5		C
	ICs					
IC200	2120 6539	Linear IC	M51348FP	1		B
IC300	2114 0350	Linear IC	M51403FP	1		B
IC400	2114 0182	Linear IC	MSC1169MS-K	1		B
	Inductors					
L100	3013 0161	Chip	NL453232-100K-2-TP	10		C
L101	3013 0161	Chip	NL453232-100K-2-TP	10		C
L102	3013 0021	Chip	NL453232-101K-2-TP	10		C
L103	3013 0021	Chip	NL453232-101K-2-TP	10		C
L200	3018 0550	Chip	MLF3216DR82K-TP	10		C
L201		Not used				
L202	3013 0581	Chip	MLF3216C150K-TP	10		C
L300 *O	3013 0637	Chip	MLF3216C220K-TP	10		C
	Transistors					
Q100	2230 7011	Chip	2SD601A-R	10		C
Q101	2230 7011	Chip	2SD601A-R	10		C

Linear PCB No.3 KX336CA,CF

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
Q102	2252 0056	Chip	2SC2873-Y	10		C
Q200 *O	2259 0406	Chip	2SC3935-R	20		C
Q300	2253 0133	Chip	2SD1819A-R	20		C
Q301 *O	2251 0189	Chip	2SB1218A-R	20		C
	Resistors					
R100		Not used				
R101	2791 1390	Chip	ERJ-6GEYJ473V	10		C
R102	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R103	2797 0252	Chip	ERJ-6GEYJ823V	20		C
R104	2791 0807	Chip	ERJ-6GEYJ390V	10		C
R105	2791 0572	Chip	ERJ-6GEYJ101V	10		C
R106		Not used				
R200	2791 0688	Chip	ERJ-6GEYJ220V	20		C
R201	2791 0572	Chip	ERJ-6GEYJ101V	10		C
R202	2791 0720	Chip	ERJ-6GEYJ222V	20		C
R203	2791 2095	Chip	ERJ-6GEYJ682V	20		C
R204	2791 0688	Chip	ERJ-6GEYJ220V	20		C
R205	2791 0831	Chip	ERJ-6GEYJ681V	20		C
R206	2797 0777	Chip	ERJ-6GEYJ121V	20		C
R207	2791 0734	Chip	ERJ-6GEYJ272V	20		C
R208	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R209	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R210	2791 0720	Chip	ERJ-6GEYJ222V	20		C
R211	2797 1008	Chip	ERJ-6GEYJ563V	20		C
R212	2791 0696	Chip	ERJ-6GEYJ470V	20		C
R213	2791 1901	Chip	ERJ-6GEYJ184V	20		C
R214	2791 1919	Chip	ERJ-6GEYJ274V	20		C
R215	2892 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R216	2791 0607	Chip	ERJ-6GEYJ333V	20		C
R217	2791 0750	Chip	ERJ-6GEYJ223V	20		C
R218	2791 1650	Chip	ERJ-6GEYJ122V	20		C
R219	2791 1901	Chip	ERJ-6GEYJ184V	20		C
R220		Not used				
R221	2791 0580	Chip	ERJ-6GEYJ392V	10		C
R222	2791 1625	Chip	ERJ-6GEYJ391V	20		C
R223	2791 2176	Chip	ERJ-6GEYJ471V	20		C
R224		Not used				
R225	2791 2109	Chip	ERJ-6GEYJ393V	20		C
R226	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R227	2791 1420	Chip	ERJ-6GEYJ331V	20		C
R228	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R230	2892 0110	Chip jumper	ERJ-6GEYJ0R00V	20		C
R300	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R301	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R302	2791 0712	Chip	ERJ-6GEYJ152V	20		C
R303	2791 1625	Chip	ERJ-6GEYJ391V	20		C
R304	2791 2095	Chip	ERJ-6GEYJ682V	20		C
R305	2791 2095	Chip	ERJ-6GEYJ682V	20		C
R306	2791 2052	Chip	ERJ-6GEYJ224V	20		C
R307	2791 2141	Chip	ERJ-6GEYJ273V	20		C
R308	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R309	2791 1625	Chip	ERJ-6GEYJ391V	20		C
R310	2791 1161	Chip	ERJ-6GEYJ151V	10		C
R311	2791 1633	Chip	ERJ-6GEYJ123V	20		C
R312	2791 0750	Chip	ERJ-6GEYJ223V	20		C
R313	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R314	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R315	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R316	2791 1595	Chip	ERJ-6GEYJ153V	20		C
R317	2791 1390	Chip	ERJ-6GEYJ473V	10		C
R318	2791 0720	Chip	ERJ-6GEYJ222V	20		C
R319	2797 1288	Chip	ERJ-6GEYK106V	20		C
R400	2791 1684	Chip	ERJ-6GEYJ183V	20		C

Linear PCB No.4

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
R401	2791 1684	Chip	ERJ-6GEYJ184V	20		C
R402	2791 1684	Chip	ERJ-6GEYJ184V	20		C
R403	2791 1901	Chip	ERJ-6GEYJ184V	20		C
R404	2791 0599	Chip	ERJ-6GEYJ822V	10		C
R405	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R406	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R407	2797 0028	Chip	ERJ-6GEYJ683V	20		C
R408	2791 1901	Chip	ERJ-6GEYJ184V	20		C
R409	2791 1901	Chip	ERJ-6GEYJ184V	20		C
R410	2791 0599	Chip	ERJ-6GEYJ822V	10		C
R411	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R412	2791 0769	Chip	ERJ-6GEYJ563V	20		C
R413	2791 2044	Chip	ERJ-6GEYJ124V	20		C
R414	2791 2052	Chip	ERJ-6GEYJ224V	20		C
R415	2791 2044	Chip	ERJ-6GEYJ124V	20		C
R416	2791 1595	Chip	ERJ-6GEYJ153V	20		C
R417	2791 2109	Chip	ERJ-6GEYJ393V	20		C
R418	2791 1579	Chip	ERJ-6GEYJ474V	10		C
R419		Not used				
R420	2791 0607	Chip	ERJ-6GEYJ333V	20		C
R421	2797 0938	Chip	ERJ-6GEYK225V	20		C
R422	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R610	2791 1617	Chip	ERJ-8GEYJ100V	20		C
R611	2791 1617	Chip	ERJ-8GEYJ100V	20		C
R612	2791 0696	Chip	ERJ-6GEYJ470V	20		C
	Variable Resistors					
VR100	2771 0140	Semi-fixed resistor	EVM-07SW00B53	10		C
VR200	2771 0212	Semi-fixed resistor	EVM-07SW00B54	10		C
VR300	2771 0204	Semi-fixed resistor	EVM-07SW00B24	10		C
VR301	2775 0077	Semi-fixed resistor	H0614D-47KB	20		C
VR400	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10		C
VR401	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10		C
VR402	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10		C
	Other Electronic Parts					
CN101		Connector	HELM22S-1			
H300	2590 0245	Cristal oscillator	AT-51C	1		C
JK101	3510 8114	Jack(CA version only)	HSJ0836-01-010	10		C
JK102	3501 0994	Jack(Power)	HEC1781-01-510	10		C
JK103	3510 8114	Jack(CA version only)	HSJ0836-01-010	10		C
JK104	3240 1791	Jack(Audio/video)	HSJ0863-01-410	1		C
SW103	3412 0203	Switch(Power)	HSW1697-01-210	5		C
T100	3065 0175	DC-DC converter trans.	LC128-04	1		C
T200	3841 1250	Coil	5KVC-03	5		C
T201	3841 1250	Coil	5KAC-03	5		C
T300	3841 0392	Coil	5PBC-01	5		C
TC300	2898 0028	Trimmer capacitor	ECR-RN035L72D	10		C
TM100	2775 0182	Chip thermister	N32163DH102K	10		C
TM400	2775 0203	Chip thermister	N32164BH154K	10		C
TU	1012 7612	Tuner(for CA version)	TEPE2-02	1		C
TU	1012 2590	Tuner(for CF version)	TEPEZ-03	1		C

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	Capacitors					
C600	2845 0140	Chip tantalum	TESVA1A105M1-8R	10		C
C661	2804 9277	Electrolytic	6.3RC3100	10		C
C650	2892 0844	Chip	GR42-6Y5V474Z16PT	20		C
C651	2897 0511	Chip	GR40W5R223K25PT	20		C
C652		Not used				
C653	2897 0511	Chip	GR40W5R273K25PT	20		C
C654		Not used				
C655		Not used				
C700	2895 0112	Chip tantalum	TESVA0J335M1-8R	10		C
C701		Not used				
C710	2804 9277	Electrolytic	6.3RC3100	10		C
C750		Not used				
C751	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C752	2892 0253	Chip	GR42-6Y5V224Z25PT	20		C
C753	2892 0253	Chip	GR42-6Y5V224Z25PT	20		C
C754	2892 0253	Chip	GR42-6Y5V224Z25PT	20		C
C755	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C756	2892 0296	Chip	GR40CH390J50PT	10		C
C757	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C758	2892 0296	Chip	GR40CH390J50PT	10		C
C759	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C760	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C761	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C762	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C763	2892 0016	Chip	GR40W5R102K50PT	10		C
C764	2892 0016	Chip	GR40W5R102K50PT	10		C
C765	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C766	2897 0469	Chip	GR40UJ470J50PT	20		C
C767	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C768	2892 0296	Chip	GR40CH390J50PT	10		C
C769	2892 0296	Chip	GR40CH390J50PT	10		C
C770	2892 0296	Chip	GR40CH390J50PT	10		C
C771	2892 0296	Chip	GR40CH390J50PT	10		C
C772	2892 0296	Chip	GR40CH390J50PT	10		C
C773	2892 0296	Chip	GR40CH390J50PT	10		C
C774	2892 0326	Chip	GR40CH101J50PT	10		C
C775	2892 0326	Chip	GR40CH101J50PT	10		C
C776	2892 0326	Chip	GR40CH101J50PT	10		C
C777	2892 0130	Chip	GR40Y5V102Z50PT	10		C
C778	2892 0016	Chip	GR40W5R102K50PT	10		C
C779		Not used				
C780	2892 0130	Chip	GR40Y5V102Z50PT	10		C
C781	2892 0113	Chip	GR40CH150J50PT	10		C
C782	2892 0113	Chip	GR40CH150J50PT	10		C
C783		Not used				
C784	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C785	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C786	2892 0296	Chip	GR40CH390J50PT	10		C
C787	2892 0253	Chip	GR42-6Y5V224Z25PT	20		C
C788	2897 0084	Chip(for CF version)	GR42-6Y5V105Z16PT	20		C
C789	2897 0084	Chip	GR42-6Y5V105Z16PT	20		C
C790	2892 0237	Chip	GR40W5R222K50PT	10		C
C791	2892 0237	Chip	GR40W5R222K50PT	10		C
C792	2897 0609	Chip	GR40W5R821K50PT	10		C
C793	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C794		Not used				
C795	2892 0016	Chip	GR40W5R102K50PT	10		C
C800	2895 0112	Chip tantalum	TESVA0J335M1-8R	10		C
C801	2895 0112	Chip tantalum	TESVA0J335M1-8R	10		C
C810	2804 9251	Electrolytic	50RC3 3R3	10		C
C811		Not used				C
C812	2805 8203	Electrolytic	50RC3 4R7	10		C

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
C850	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C851	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C852	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C853	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C855	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C856	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C857		Not used				
C858		Not used				
C859		Not used				
C860	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C861	2897 0021	Chip	GR40Y5V883Z50PT	20		C
C862	2892 0844	Chip	GR42-6Y5V474Z16PT	20		C
C863	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C864		Not used				
C865	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C866		Not used				
C867	2892 0156	Chip	GR42-6Y5V104Z50PT	10		C
C868	2897 0140	Chip	GR42-6Y5V224Z50PT	20		C
C869		Not used				
C870	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C871	2892 0059	Chip	GR40Y5V103Z50PT	10		C
	Diodes					
D700	2360 0854	Chip zener	MA3100-M(TX)	20		C
D710	2305 1010	Chip	MC2838-T1	10		C
D711	2390 0455	Chip	MA142K	20		C
D712	2390 0406	Chip	MC2836-T1	20		C
D713	2305 1010	Chip	MC2838-T1	10		C
D714	2305 1010	Chip	MC2838-T1	10		C
D715		Not used				
D730	2390 0462	Vari. cap.	MA366-(TX)	10		C
D800	2360 0854	Chip zener	MA3100-M(TX)	20		C
D810	2390 0728	Chip	MC2848	20		C
	ICs					
IC600	2120 9023	Linear IC	NJM2073M	1		B
IC700	2010 5999	LSI	MSM6348GS-K	1		B
IC701	2100 4618	C-MOS IC(CF only)	TC4001BF	1		B
IC800	2114 1295	Linear IC	LA5313M	1		B
IC801	2010 4382	LSI	MSM6362MS-K	1		B
	Inductors					
L700	3013 0021	Chip	NL453232-101K-2-TP	10		C
L701	3013 0245	Chip	NL322522-100J-1-TP	10		C
	Transistors					
Q700	2230 5522	Chip	2SD601A-R	10		C
Q701	2251 0203	Chip	2SB709A-R	20		C
Q702	2251 0203	Chip	2SB709A-R	20		C
Q800		Not used				
Q801		Not used				
Q802	2210 8026	Chip	2SB709A-R(TX)	10		C
Q803	2251 0315	Chip	2SB1218A-R(TX)	20		C
Q804	2251 0315	Chip	2SB1218A-R(TX)	20		C
Q805	2253 0133	Chip	2SD1819A-R(TX)	20		C
Q806	2253 0133	Chip	2SD1819A-R(TX)	20		C
	Resistors					
R601	2791 1633	Chip	ERJ-6GEYJ123V	20		C
R602	2791 1170	Chip	ERJ-6GEYJ182V	20		C
R603		Not used				
R604		Not used				
R605		Not used				
R700	2791 2095	Chip	ERJ-6GEYJ682V	20		C
R701	2797 0014	Chip	ERJ-6GEYJ821V	20		C
R702	2791 1633	Chip	ERJ-6GEYJ123V	20		C
R704	2791 0238	Chip	ERJ-6GEYJ560V	20		C
R705	2791 0599	Chip	ERJ-6GEYJ822V	10		C

A/D PCB No.3 KX336CA,CF

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
R706	2791 2052	Chip	ERJ-6GEYJ224V	20		C
R707	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R708	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R709	2791 0615	Chip	ERJ-6GEYJ154V	10		C
R710	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R711		Not used				
R712	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R713	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R714		Not used				
R715	2791 2044	Chip(for CF version)	ERJ-6GEYJ124V	20		C
R716	2791 1901	Chip(for CF version)	ERJ-6GEYJ184V	20		C
R717	2791 2095	Chip(for CF version)	ERJ-6GEYJ682V	20		C
R718	2797 0938	Chip(for CF version)	ERJ-6GEYK225V	20		C
R719	2791 0792	Chip(for CF version)	ERJ-6GEYJ332V	10		C
R720	2791 0792	Chip(for CF version)	ERJ-6GEYJ332V	10		C
R721	2791 1587	Chip(for CF version)	ERJ-6GEYK475V	20		C
R722	2791 2141	Chip(for CF version)	ERJ-6GEYJ273V	20		C
R723	2791 0305	Chip(for CF version)	ERJ-6GEYJ472V	20		C
R724	2791 1390	Chip(for CF version)	ERJ-6GEYJ473V	10		C
R725	2791 2117	Chip(for CF version)	ERJ-6GEYJ820V	20		C
R726	2797 0938	Chip(for CF version)	ERJ-6GEYK225V	20		C
R727	2791 0704	Chip(for CF version)	ERJ-6GEYJ561V	20		C
R728		Not used				
R730		Not used				
R731		Not used				
R800	2791 0607	Chip	ERJ-6GEYJ333V	20		C
R801	2791 0580	Chip	ERJ-6GEYJ392V	10		C
R802	2797 1267	Chip	ERJ-6GEYF393V	10		C
R803	2791 0792	Chip	ERJ-6GEYJ332V	10		C
R804	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R806		Not used				
R809	2797 1162	Chip	ERJ-6GEYF824V	20		C
R810	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R813	2791 1901	Chip	ERJ-6GEYJ184V	20		C
R814	2791 0750	Chip	ERJ-6GEYJ223V	20		C
R815	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R816	2791 0750	Chip	ERJ-6GEYJ223V	20		C
R818		Not used				
R819		Not used				
R820	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R821	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R822	2791 1021	Chip	ERJ-6GEYJ122V	10		C
R823	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R830	2791 0769	Chip	ERJ-6GEYJ563V	20		C
R831	2795 2394	Chip	ERJ-6GEYF163V	20		C
R832	2797 1225	Chip	ERJ-6GEYF154V	20		C
R833	2791 0769	Chip	ERJ-6GEYJ563V	20		C
R834	2795 2401	Chip	ERJ-6GEYF183V	20		C
R835	2797 1232	Chip	ERJ-6GEYF164V	20		C
	Variable Resistors					
VR600	2765 0595	Volume	RK09J11T-10KB	5		C
VR700	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10		C
VR800	2765 0588	Volume	RK09J11T-20KB	5		C
	Other Electronic Parts					
CN100	3501 1400	Connector	CFP4328-0121	1		C
SW101	3412 0336	Switch	SKHMPA	10		C
SW102	3412 0336	Switch	SKHMPA	10		C
TM800	2775 0168	Chip thermister	N32163RH203K	10		C

Mechanical

KX336CA

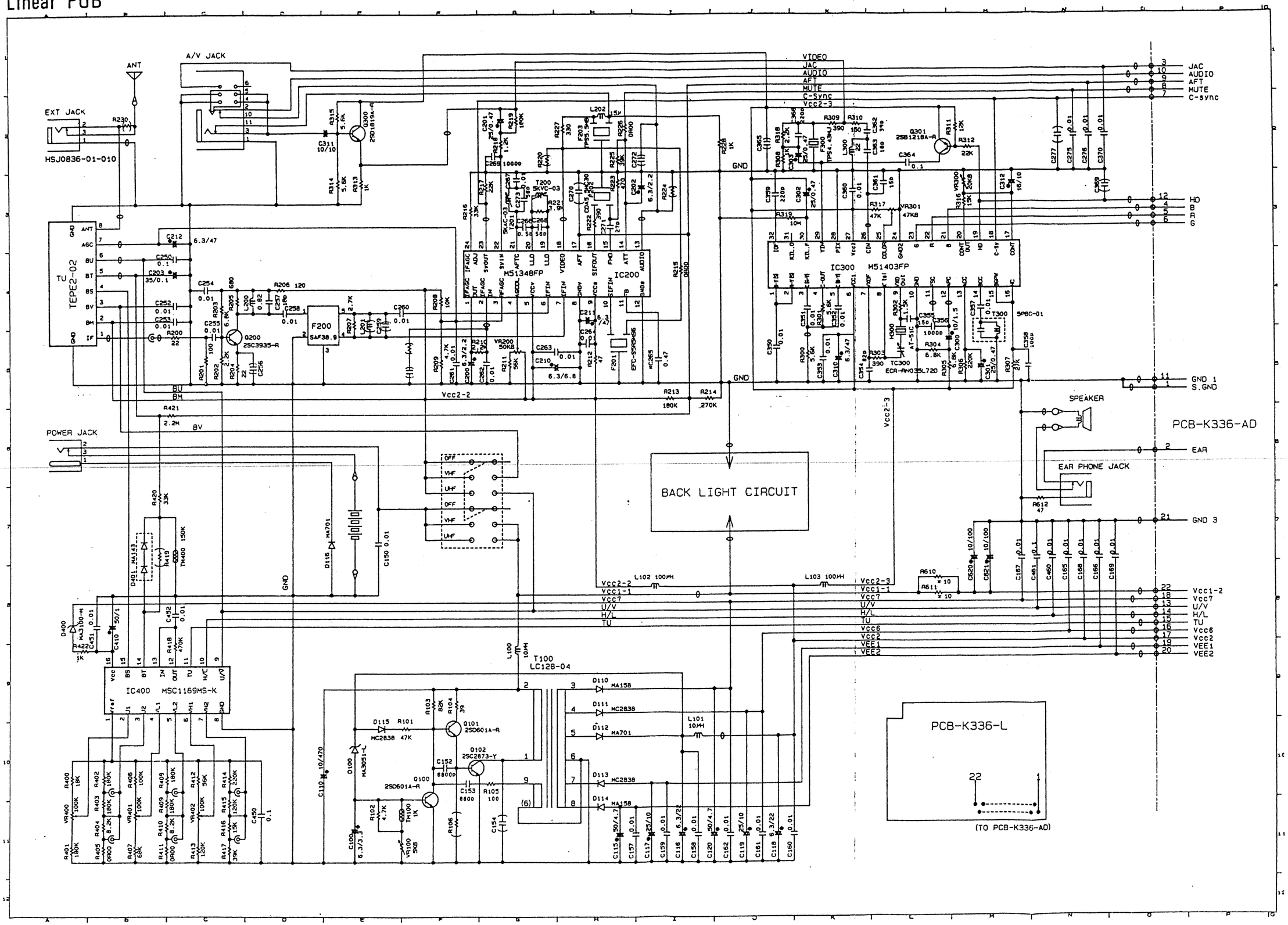
Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
1	6605 1850	Display plate C-K336	K41361-3	1		C
2	6602 2430	Adhesive tape C-K56	K4677-3	20		X
3	6605 1860	Upper case	K210147-2	1		C
4	6604 5250	T button A-K332	K3913-1	20		C
5	6601 1700	Felt A-K60	K4117-3	20		X
6	6604 7620	SP blind K332	K410008-1	20		X
7	3830 4011	Speaker	T036C43	1		B
8	6604 5270	Harness sub ass'y B	K41363*1	20		X
9	6602 5860	TS screw C-K56	K4782-1	50		X
10	6605 1846	Shield case ass'y	K2640*2	1		B
10 - 1	6604 5371	S case A-K332	K2592A-1	5		C
10 - 2	3501 1400	FP-4 connector	CFP4328-0121	1		C
10 - 3	6604 5410	Cable A-K332	K3912-1	5		C
10 - 4	6604 5421	Flat cable K332	K41187A-4	1		C
10 - 5	6604 5310	Spacer A-K332	K2590-1	10		X
10 - 6	6600 4270	Adhesive tape A-K51	K451-14	10		X
10 - 7	6604 5320	Diffuser K332	K3915-1	10		X
10 - 8	6602 2350	Insulation plate B-K56	K4670-2	20		X
10 - 9	6604 5381	S case B-K332	K2593A-1	5		C
10 - 10	5860 0420	Precision (+) tap tight	BT3 1.7 x 4Ni	50		X
10 - 11	6604 7630	Insulation plate A-K332	K4670-17	20		X
11	3851 0728	Fluorescent lamp	10U2273AD1P7	1		B
12	3632 0028	Temperature fuse	SM098B1	10		B
13	6604 5340	Holder A-K332	K41366-1	10		X
14	4309 1540	Blank PCB-K332 - sub-(S)	K3926-1	10		X
15	6604 5350	Harness sub ass'y C	K41364*1	10		X
16	6604 5470	Reflection tape K332	K31008-1	20		X
17	6604 5330	Reflection case A-K332	K3917-1	10		X
18	6604 5480	Blind plate K332	K41452-1	20		X
19	6327 1850	TS screw	A44508-1	50		X
20	6601 1700	Felt A-K60	K41103-1	20		X
21	6600 2340	Insulation plate A-K52	K452-5	20		X
22	5860 0420	Precision (+) tap tight	BT3 1.7 x 4Ni	50		X
23	3501 1827	Connector	HLEM22S-1	10		C
24	6605 1900	L shield plate K335	K310191-1	5		X
25	6604 7780	Precision (+) tap tight A332	K41310-3	20		X
26	6603 8923	C knob	K3741C-1	20		C
27	6605 2690	Lower case CF-K336	K210137-3	1		C
28	3851 0700	Rod antenna	YC-KX-332-A1	1		B
29	6603 9461	Slide knob A-K302	K41103-1	20		C
30	5860 1022	Precision (+) tap tight	BT3 1.7 x 6	50		X
31	6604 5230	ST tape A-K332	K41368-1	20		X
32	5860 0805	Precision (+) tap tight	BT 1.7 x 10	50		X
33	5860 1806	Washer	M3	50		X
34	6602 8490	Flat screw A-K63	K4150-3	50		X
35	6605 1891	Rating plate CF-336	K41138A-12	20		X
36	6020 7658	Battery spring B1 G513	P408A-1	10		B
37	6604 5300	B spring A-K332	K41422-1	20		B
38	6020 7666	Battery spring B2 G513	P409A-1	10		B
39	6602 3410	Battery spring B-K63	K4651-1	20		B
40	6604 9871	Battery cover B-K336	K2453A-3	10		C
41	6601 1700	Felt A-K60	K4117-3	20		X
42	6604 5440	Stand A-K332	K3914-1	5		C
43	6604 9890	Caution label	K410091-2	20		C
44	2114 0798	FL trans unit	CXA-0042	1		C

Mechanical KX336CF

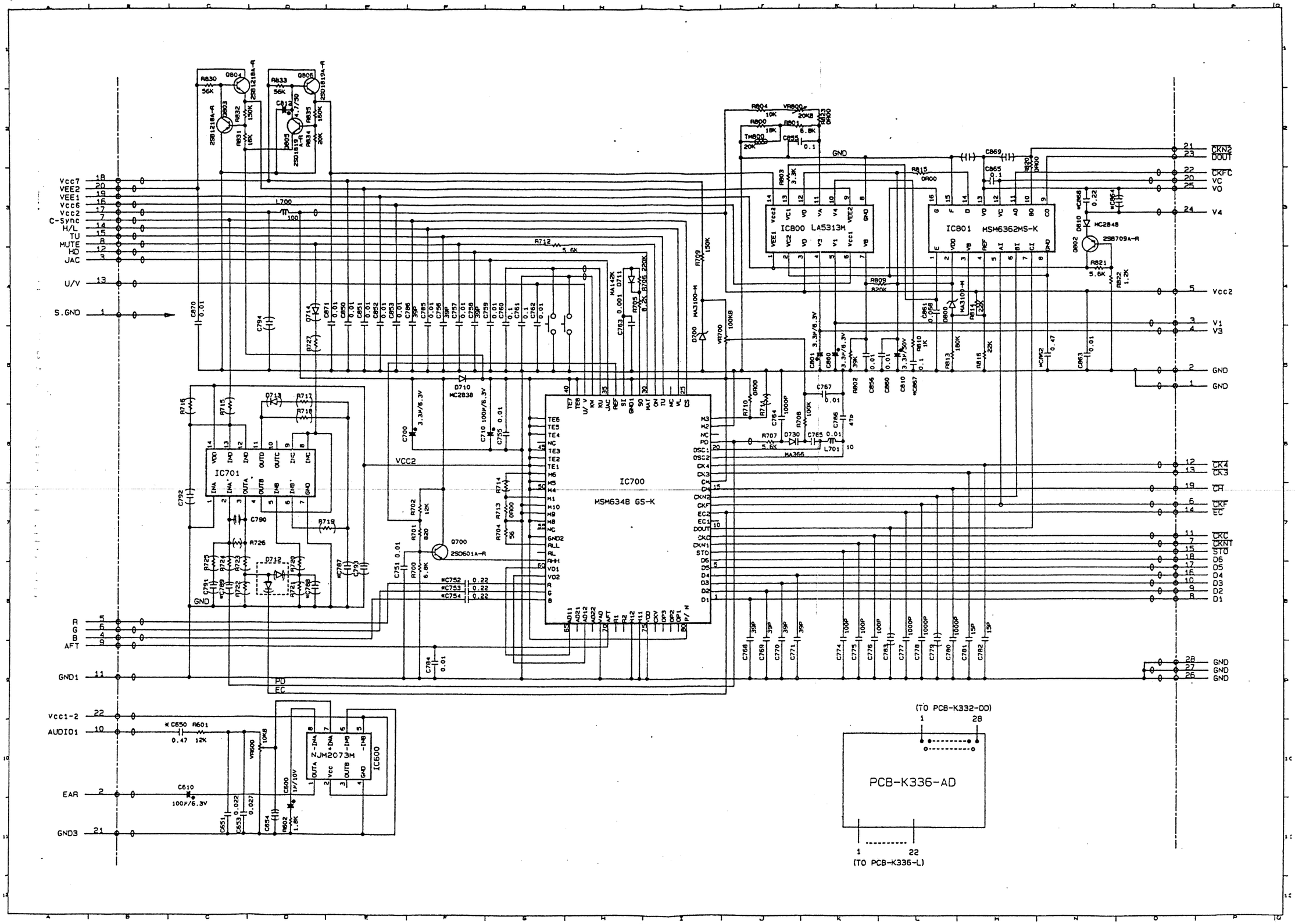
Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
1	6605 1850	Display plate C-K336	K41361-3	1		C
2	6602 2430	Adhesive tape C-K56	K4677-3	20		X
3	6605 1860	Upper case	K210147-2	1		C
4	6604 5250	T button A-K332	K3913-1	20		C
5	6601 1700	Felt A-K60	K4117-3	20		X
6	6604 7620	SP blind K332	K410008-1	20		X
7	3830 4011	Speaker	T036C43	1		B
8	6604 5270	Harness sub ass'y B	K41363*1	20		X
9	6602 5860	TS screw C-K56	K4782-1	50		X
10	6605 2638	Shield case ass'y	K2640B*3	1		B
10 - 1	6604 5371	S case A-K332	K2592A-1	5		X
10 - 2	3501 1400	FP-4 connector	CFP4328-0121	1		C
10 - 3	6604 5410	Cable A-K332	K3912-1	5		C
10 - 4	6604 5421	Flat cable K332	K41187A-4	1		C
10 - 5	6604 5310	Spacer A-K332	K2590-1	10		X
10 - 6	6600 4270	Adhesive tape A-K51	K451-14	10		X
10 - 7	6604 5320	Diffuser K332	K3915-1	10		X
10 - 8	6602 2350	Insulation plate B-K56	K4670-2	20		X
10 - 9	6604 5381	S case B-K332	K2593A-1	5		C
10 - 10	5860 0420	Precision (+) tap tight	BT3 1.7 x 4Ni	50		X
10 - 11	6604 7630	Insulation plate A-K332	K4670-17	20		X
11	3851 0728	Fluorescent lamp	10U2273AD1P7	1		B
12	3632 0028	Temperature fuse	SM098B1	10		B
13	6604 5340	Holder A-K332	K41366-1	10		X
14	4309 1540	Blank PCB-K332 - sub-(S)	K3926-1	20		X
15	6604 5350	Harness sub ass'y C	K41364*1	10		X
16	6604 5470	Reflection tape K332	K31008-1	20		X
17	6604 5330	Reflection case A-K332	K3917-1	10		X
18	6604 5480	Blind plate K332	K41452-1	20		X
19	6327 1850	TS screw	A44508-1	50		X
20	6601 1700	Felt A-K60	K4117-3	20		X
21	6600 2340	Insulation plate A-K52	K452-5	20		X
22	5860 0420	Precision (+) tap tight	BT3 1.7 x 4Ni	50		X
23	3501 1827	Connector	HLEM22S-1	10		C
24	6605 1900	L shield plate K335	K310191-1	5		X
25	6604 7780	Precision (+) tap tight A332	K41310-3	20		X
26	6603 8923	C knob	K3741C-1	20		C
27	6605 2690	Lower case CF-K336	K210137-3	1		C
28	3851 0700	Rod antenna	YC-KX-332-A1	1		B
29	6603 9461	Slide knob A-K302	K41103-1	20		C
30	5860 1022	Precision (+) tap tight	BT3 1.7 x 6	50		X
31	6604 5230	ST tape A-K332	K41368-1	20		X
32	5860 0805	Precision (+) tap tight	BT 1.7 x 10	50		X
33	5860 1806	Washer	M3	50		X
34	6602 8490	Flat screw A-K63	K4150-3	50		X
35	6605 2651	Rating plate CF-336	K41138A-13	20		X
36	6020 7658	Battery spring B1 G513	P408A-1	10		B
37	6604 5300	B spring A-K332	K41422-1	20		B
38	6020 7666	Battery spring B2 G513	P409A-1	10		B
39	6602 3410	Battery spring B-K63	K4651-1	20		B
40	6604 9871	Battery cover B-K336	K2453A-3	10		C
41	6601 1700	Felt A-K60	K4117-3	20		X
42	6604 5440	Stand A-K332	K3914-1	5		C
43	6604 9890	Caution label	K410091-2	20		C
44	2114 0798	FL trans unit	CXA-0042	1		C

SCHEMATIC DIAGRAM

Linear PCB



A/D PCB


IC800 LA5313M
IC801 MSM6362MS-K
IC700
MSM6348 GS-K
IC701
IC600
NJM2073M
Q804
2SB1218A-R
Q805
2SD1819A-R
Q803
Q700
2SD601A-R
Q802
2SB709A-R
MC2848
MA3100-M
MA142K
MA366
VR700
100KB
VR600
10KB
L700
L701
D700
D710
MC2838
D730
D712
D713
D714
Vcc7
VEE2
VEE1
Vcc6
Vcc2
C-Sync
H/L
TU
MUTE
HD
JAC
U/V
S.GND
GND
VCC2
GND1
GND3
Vcc1-2
AUDIO1
EAR
AFT
PD
EC
CKN2
DOUT
CKFC
VC
VO
Vcc2
V1
V3
V4
CK4
CK3
CH
CKF
CKC
CKNT
STO
D6
D5
D4
D3
D2
D1
(TO PCB-K332-DD)
PCB-K336-AD
(TO PCB-K336-L)